

Exhibit P-40, Budget Item Justification Sheet								Date: February 2004				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2)						P-1 Item Nomenclature: LIGHT ARMORED VEHICLE						
Program Element: 0206211M Divisions (Marine)				Code: A	Other Related Program Elements:							
	Prior Years			FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	98.2			49.8	36.2	41.6	59.3	39.6	82.1	86.5	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.2			49.8	36.2	41.6	59.3	39.6	82.1	86.5	Cont	Cont
Initial Spares	2.2			0.1	0.0	2.9	2.7	0.0	1.1	5.3	Cont	Cont
Total Proc Cost	100.4			49.9	36.2	44.5	61.9	39.6	83.2	91.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
<p>FY1998 - FY2009 LAV RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (LAV RAM) IMPROVEMENTS Projects funded under the LAV RAM Program include numerous low-dollar, yet extremely important minor modifications, safety and obsolescence issues, support equipment and tools, and other such projects that increase LAV reliability and readiness while simultaneously reducing operations and support costs.</p> <p>MODIFICATION: Various INSTALLING AGENT: Field INSTALLATION: Begin Various, End Various END ITEM: LAV Family of Vehicles</p> <p>FY2002 - FY2005 LAV SLEP FY02 begins the Service Life Extension Program (SLEP) to the Family of LAV vehicles. The LAV SLEP is designed to extend the LAV Family of Vehicles service life through 2015, an increase of 12 to 15 years beyond its originally projected useful life by improving survivability, lethality, reliability, availability, maintainability and durability and reducing operations and support costs.</p> <p>FY2005- FY2008 LAV SLEP Thermal Sight (Per NAVCOMPT Direction, FY03 funds of \$9.951M & FY04 funds of \$5.094M are to be used to procure LAV Thermal Sight Systems in FY05) The LAV SLEP Thermal Sight invests in several technologies, both developmental and off-the-shelf, to enhance system survivability, lethality, reliability, mobility and sustainability while simultaneously reducing cost of ownership.</p> <p>MODIFICATION: Various INSTALLING AGENT: Metric Systems Inc INSTALLATION: TBD END ITEM: LAV Family of Vehicles DT / OT: 2nd Qtr, FY 2001 Milestone III: 2nd Qtr, FY 2002 IOC: 2nd Qtr, FY 2004 (LAV SLEP) DT / OT: 4th Qtr, FY 2003 Prg Rev Dec: 4th Qtr, FY 2004 IOC: 1st Qtr, FY 2007 (LAV SLEP Thermal Sight)</p>												

Exhibit P-40, Budget Item Justification Sheet		Date: <div style="text-align: right;">February 2004</div>
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2)	P-1 Item Nomenclature: <div style="text-align: right;">LIGHT ARMORED VEHICLE</div>	
<p>FY 2008 - FY2011 LAV ANTI ARMOR SYSTEM (LAV AAS)</p> <p>The LAV AAS Program is designed to replace the existing LAV Anti Tank Emerson 901 Turret. The current turret has exhibited numerous deficiencies for many years that make it unreliable and costly to maintain. The current modification will ensure the LAV-AAS will be a viable weapons system through the service life of the LAV Family of Vehicles. The LAV AAS will provide the operating forces the ability to detect and defeat armored systems.</p> <p>MODIFICATION: Various INSTALLING AGENT: TBD INSTALLATION: TBD END ITEM: LAV Anti Tank Variant</p> <p>MS A: MS B: 2nd Qtr, FY05 DT/OT: 3rd Qtr, FY07 MS C: 2nd Qtr, FY08 IOC: 2nd Qtr, FY10 (LAV AAS)</p> <p>FY2007 - FY2009 LAV COMMAND & CONTROL UPGRADE (LAV C2)</p> <p>The LAV C2 Program is designed to meet and maintain the command and control requirements of the ORD. The LAV-C2 Upgrade will provide a hardware and software module for the LAV-C2 to support complex radio configurations. The module will provide isolation of critical communications functions in a self-contained module to support a mix of legacy radio and the Joint Tactical Radio System (JTRS). The modification will ensure that the LAV-C2 will be a viable weapons system through the service life of the the LAV Family of Vehicles.</p> <p>MODIFICATION: Various INSTALLING AGENT: TBD INSTALLATION: TBD END ITEM: LAV C2 Variant</p> <p>MS A: Ongoing MS B: 3rd Qtr, FY04 DT/OT: 3rd Qtr, FY06 MS C: 1st Qtr, FY07 IOC: 1st Qtr, FY09 (LAV C2)</p> <p>FY 2008 - FY2009 LAV ENHANCED FIRE SUPPORT SYSTEM (LAV EFSS)</p> <p>The LAV EFSS Program is designed to replace the existing LAV M252 81mm Mortar System with a 120mm Recoil Mortar System (RMS). The 120mm RMS will provide superior lethality and time to emplacement resulting in increased survivability. The LAV EFSS will invest in technoloiges currently on newer generations of Light Armored Vehicles and other weapons systems.</p> <p>MODIFICATION: Various INSTALLING AGENT: TBD INSTALLATION: TBD END ITEM: LAV Mortar Variant</p> <p>MS A: MS B: 3rd Qtr, FY04 DT/OT: 1st Qtr, FY07 MS C: 1st Qtr, FY08 IOC: 1st Qtr, FY10 (LAV EFSS)</p>		

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2)			P-1 Line Item Nomenclature: LIGHT ARMORED VEHICLE			Weapon System Type:			Date: February 2004		
Weapon System Cost Elements	ID CD	FY 02			FY 03			FY 04			FY 05		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
RAM PROJECTS	A				1029	1 BL		1000	1BL		1036	1BL	
HARDWARE					700			828			853		
GOVERNMENT ENGINEERING					35			38			39		
TESTING/OTHER SUPPORT													
SUBTOTAL					1764			1866			1928		
SLEP MOD KITS	B				23793	430	55333						
INSTALLATION OF SLEP MOD KITS					7898			4003					
PRODUCTION VERIFICATION TESTING					601								
ECO					952								
ILS					1425			300					
FIELDING SUPPORT					1173								
SYS. ENGINEERING/PROGRAM MGT SPT					2245			1750					
OIF VEHICLE REPAIR								23200					
XMLTIRES/WHEEL ASSY											7200	4283	1681
SUBTOTAL					38087			29253			7200		
THERMAL SIGHT MODIFICATION KITS	B				9951	45	219000	5094	23	219000	28908	132	219000
INSTALLATION OF THERMAL SIGHT MOD KITS													
PRODUCTION VERIFICATION TESTING											648		
ECO											910		
SPECIAL PURPOSE TEST EQUIPMENT											602		
ILS											638		
SYS. ENGINEERING/PROGRAM MGT SPT											754		
SUBTOTAL					9951			5094			32460		
TOTAL					49802			36213			41588		
Active					42998			36213			41588		
Reserve					6804								
BL = One block or set of equipment													

Exhibit P-5a, Budget Procurement History and Planning									Date:	
									February 2004	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2)				Weapon System Type:			P-1 Line Item Nomenclature:			
				LIGHT ARMORED VEHICLE						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
LAV RAM										
FY02	VARIOUS	VAR	TACOM	VAR	VAR	1 BL	VAR	NO	N/A	N/A
FY03	VARIOUS	VAR	TACOM	VAR	VAR	1 BL	VAR	NO	N/A	N/A
FY04	VARIOUS	VAR	TACOM	VAR	VAR	1 BL	VAR	NO	N/A	N/A
FY05	VARIOUS	VAR	TACOM	VAR	VAR	1 BL	VAR	NO	N/A	N/A
FY02 SLEP KITS CONTRACT	METRIC SYSTEMS, FLORIDA	FFP	TACOM	Apr-02	Feb-03	323	50204	NO	N/A	Sep-00
FY03 SLEP KITS CONTRACT	METRIC SYSTEMS, FLORIDA	FFP	TACOM	Nov-02	Dec-03	430	55333	NO	N/A	Sep-00
FY05 TIRES/WHEEL ASSEMBLIES	HUTCHINSON, NEW JERSEY	FFP	TACOM	TBD	TBD	4283	1681	NO	N/A	TBD
LAV Improved Thermal Sight										
FY03	RAYTHEON, MCKINNEY, TEXAS	FFP	TACOM	Nov-04	Nov-05	45	219000	NO	N/A	Mar-01
FY04	RAYTHEON, MCKINNEY, TEXAS	FFP	TACOM	Nov-04	Nov-05	23	219000	NO	N/A	Mar-01
FY05	RAYTHEON, MC KINNEY, TEXAS	FFP	TACOM	Nov-04	Nov-05	132	219000	NO	N/A	Mar-01
REMARKS:										

INDIVIDUAL MODIFICATION																Date	February 2004				
MODIFICATION TITLE: LAV RAM IMPROVEMENTS																					
MODELS OF SYSTEMS AFFECTED: ALL																					
DESCRIPTION / JUSTIFICATION: Projects funded under the LAV RAM program include numerous low-dollar yet extremely important minor modifications, safety and obsolescence issues, support equipment and tools and other such projects that increase LAV reliability and readiness while reducing operations and support costs. Current RAM projects include Casualty Evacuation Kits, Improved Machine Gun Mounts, Tire Machine and Engine Jacobs Brake cut-off switch.																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Approved for service use																					
Installation Schedule:																					
	Pr Yr									FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										VARIOUS				VARIOUS				VARIOUS			
Outputs										VARIOUS				VARIOUS				VARIOUS			
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	VARIOUS				VARIOUS				VARIOUS				VARIOUS								
Outputs	VARIOUS				VARIOUS				VARIOUS				VARIOUS								
METHOD OF IMPLEMENTATION: FIELD ADMINISTRATIVE LEADTIME: Various Months PRODUCTION LEADTIME: Various Months Contract Dates: Various Delivery Date: Various																					

INDIVIDUAL MODIFICATION																		Date		February 2004		
MODIFICATION TITLE (Cont): LAV RAM																						
FINANCIAL PLAN: (\$ in Millions)																						
	PRIOR YEARS		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT																						
Kit Quantity	2 BL				1 BL		1 BL		1 BL		1 BL		1 BL		1BL		1BL					
Inst Kits, Nonrecurring (BL=One Block or set of equip)																						
Equipment, Nonrecurring		3.484			1.029		1.000		1.036		1.346		1.385		0.979		1.024		Cont		Cont	
ECO																						
Other		1.572			0.735		0.866		0.892		0.635		0.654		0.673		0.692		Cont		Cont	
Installation of Hardware																						
FY 2000 Eqpt -- Kits																						
FY 2001 Eqpt -- Kits																						
FY 2002 Eqpt -- Kits																						
FY 2003 Eqpt -- kits																						
FY 2004 Eqpt -- kits																						
FY 2005 Eqpt -- kits																						
FY 2006 Eqpt -- kits																						
FY 2007 Eqpt -- kits																						
(FY(TC) Eqpt (xx kits)																						
Installment Cost																						
Total Procurement Cost		5.056			1.764		1.866		1.928		1.981		2.039		1.652		1.716					Cont

INDIVIDUAL MODIFICATION																Date	February 2004				
MODIFICATION TITLE: LAV SLEP																					
MODELS OF SYSTEMS AFFECTED: ALL																					
DESCRIPTION / JUSTIFICATION: The LAV SLEP invests in several technologies, both developmental and off-the-shelf, to enhance system survivability, lethality, reliability, mobility and sustainability while simultaneously reducing cost of ownership. The installation of the SLEP modification kits is based on a schedule that takes into account the geographic location of LAV units, the need to eliminate T/E deficiencies in the active LAV units, vehicle availability, and the schedule of Maritime Prepositioning Ships (MPS).																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: MS 0 1Q/98 MS I 2Q/99 MS II 2Q/00 MS III 2Q/02																					
Installation Schedule:																					
	Pr Yr									FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										0	15	34	184	135	135	135	115	0	0	0	0
Outputs	0									0	1	15	53	123	138	138	138	102	15	15	15
		FY 2006				FY 2007				FY 2008				FY 2009				To	Totals		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete			
Inputs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	753		
Outputs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	753		
METHOD OF IMPLEMENTATION: CONTRACTOR/DEPOT ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 10 Months Contract Dates: SLEP: 4/20/02 and 11/02 Delivery Date: SLEP: Feb 03 and Dec 03																					

INDIVIDUAL MODIFICATION																	Date		February 2004			
MODIFICATION TITLE (Cont): LAV SLEP																						
FINANCIAL PLAN: (\$ in Millions)																						
	PRIOR YEARS				FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E																						
PROCUREMENT																						
Kit Quantity	323	16.216			430	23.793														753	40.009	
Inst Kits, Nonrecurring								23.200													23.200	
OIF Vehicle Repair									4283	7.200										4283	7.200	
XML Tires/Wheel Assembly		2.915																			2.915	
Equipment, Nonrecurring																						
Engineering Change Order(ECO)		0.754				0.952															1.706	
Other		3.584				5.444		2.050													11.078	
Installation of Hardware																						
FY 2000 Eqpt -- Kits																						
FY 2001 Eqpt -- Kits																						
FY 2002 Eqpt -- Kits					446	7.898														446	7.898	
FY 2003 Eqpt -- kits							307	4.003												307	4.003	
FY 2004 Eqpt -- kits																						
FY 2005 Eqpt -- kits																						
FY 2006 Eqpt -- kits																						
FY 2007 Eqpt -- kits																						
(FY(TC) Eqpt (xx kits)																						
Installment Cost						7.898		4.003												753	11.901	
Total Procurement Cost		23.469				38.087		29.253		7.200											98.009	

INDIVIDUAL MODIFICATION																Date	February 2004				
MODIFICATION TITLE: LAV SLEP THERMAL SIGHT																					
MODELS OF SYSTEMS AFFECTED: LAV-25																					
DESCRIPTION / JUSTIFICATION: The LAV SLEP Thermal Sight invests in several technologies, both developmental and off-the-shelf, to enhance system survivability, lethality, reliability, mobility and sustainability while simultaneously reducing cost of ownership.																					
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: MS B 1Q FY02 MSC 4Q FY04 IOC 1Q FY06 FOC 2Q FY09																					
Installation Schedule:																					
	Pr Yr									FY 2003				FY 2004				FY 2005			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					
	FY 2006				FY 2007				FY 2008				FY 2009				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs	VARIOUS				VARIOUS																
Outputs	VARIOUS				VARIOUS																
METHOD OF IMPLEMENTATION: CONTRACTOR/DEPOT ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 12 Months Contract Dates: Nov 04 Delivery Date: Projected Nov 05																					

INDIVIDUAL MODIFICATION														Date		February 2004							
MODIFICATION TITLE (Cont): LAV SLEP THERMAL SIGHT																							
FINANCIAL PLAN: (\$ in Millions)																							
	PRIOR YEARS		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																							
PROCUREMENT																							
Kit Quantity					45	9.951	23	5.094	132	28.908	208	45.552	8	1.752							416	91.257	
Inst Kits, Nonrecurring																							
Equipment, Nonrecurring										0.602		1.904		2.297								4.803	
ECO										0.910		1.321		1.338								3.569	
Other										2.040		7.239		3.447		1.555						14.281	
Installation of Hardware																							
FY 2000 Eqpt -- Kits																							
FY 2001 Eqpt -- Kits																							
FY 2002 Eqpt -- Kits																							
FY 2003 Eqpt -- kits																							
FY 2004 Eqpt -- kits																							
FY 2005 Eqpt -- kits																							
FY 2006 Eqpt -- kits											183	1.255									183	1.255	
FY 2007 Eqpt -- kits													225	1.311							225	1.311	
(FY(TC) Eqpt (xx kits)															8	0.044					8	0.044	
Installment Cost												1.255		1.311		0.044						416	2.610
Total Procurement Cost						9.951		5.094		32.460		57.271		10.145		1.599							116.520

Exhibit P-20, Requirements Study				Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2)				Date: February 2004			
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): LAV SLEP				Admin Leadtime (after Oct 1): 1 Month				Prod Leadtime: 6 Months			
Line Descriptions: (Enter name of Sub-BLI Item Here)				FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Buy Summary				430							
Unit Cost				55.333							
Total Cost				23793							
Asset Dynamics											
Beginning Asset Position					233	753	753	753	753	753	
Deliveries from: FY 2002 Funding				233	90						
Deliveries from: FY 2003 Funding					430						
Deliveries from: FY 2004 Funding											
Deliveries from Subsequent Years Funds											
Other Gains											
Combat Losses											
Training Losses											
Test Losses											
Other Losses											
Disposals/Retirements/Attritions											
End of Year Asset Position				233	753	753	753	753	753	753	
Inventory Objective or Current Authorized Allowance											
Inventory Objective		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI	0
Assets Rqd for Combat Loads:	352	02 thru FY XXXX	N/A	02 thru FY XXXX	N/A	02 thru FY XXXX	0	FY 2004	0	PAA: TAI	0
WRM Rqmt:	0	FY XXXX		FY XXXX		FY XXXX	0	FY 2005	0	Attrition Res	0
Pipeline:	0	FY XXXX		FY XXXX		FY XXXX	0	Augment	0	BAI	0
Other:	401	FY XXXX		FY XXXX		FY XXXX	0			Inactive Inv	0
Total:	753									Storage	0
Remarks: FY02 and FY03 represent Basic SLEP upgrades in the quantity of 753. The "other" category in the inventory objective is broken out as follows: Maritime Prepositioned Ships (MPS) 75 Depot Maintenance Float Activity (DMFA) 104 Enhanced Equipment Allowance Pool (EEAP) 31 RESERVE 116 OTHER 32 GENERAL SUPPORT 43											

Exhibit P-20, Requirements Study				Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked Combat Vehicles (2)				Date: February 2004			
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): LAV IMPROVED THERMAL SIGHT SYSTEM				Admin Leadtime (after Oct 1): 1 Month				Prod Leadtime: 6 Months			
Line Descriptions: (Enter name of Sub-BLI Item Here)				FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Buy Summary				45	23	132	208	8			
Unit Cost				219.000	219.000	219.000	219.000	219.000	-		
Total Cost				9951	5094	28908	45552	1752			
Asset Dynamics											
Beginning Asset Position							183	408	416	416	
Deliveries from: FY 2003 Funding											
Deliveries from: FY 2004 Funding											
Deliveries from: FY 2005 Funding											
Deliveries from Subsequent Years Funds						183	225	8			
Other Gains											
Combat Losses											
Training Losses											
Test Losses											
Other Losses											
Disposals/Retirements/Attritions											
End of Year Asset Position						183	408	416	416	416	
Inventory Objective or Current Authorized Allowance											
Inventory Objective		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI	0
Assets Rqd for Combat Loads:	183	thru FY XXXX	N/A	thru FY XXXX	N/A	thru FY XXXX	0	FY 2004	0	PAA: TAI	0
WRM Rqmt:	0	FY XXXX		FY XXXX		FY XXXX	0	FY 2005	0	Attrition Res	0
Pipeline:	0	FY XXXX		FY XXXX		FY XXXX	0	Augment	0	BAI	0
Other:	233	FY XXXX		FY XXXX		FY XXXX	0			Inactive Inv	0
Total:	416									Storage	0
<p>Remarks: FY03, FY04, FY05 and FY06 represent the fielding of 408 Improved Thermal Sight Systems (ITSS) and 8 ITSS for the School of Infantry. The "other" category in the inventory objective is broken out as follows:</p> <p>MPS 42</p> <p>DMFA 59</p> <p>EEAP 15</p> <p>RESERVE 62</p> <p>OTHER 31 (Includes the 8 for SOI)</p> <p>GENERAL SUPPORT 24</p>											

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